Similar Solids

Similarity Ratio of Figures   **Ratio of Surface Area**   **Ratio of Volume**
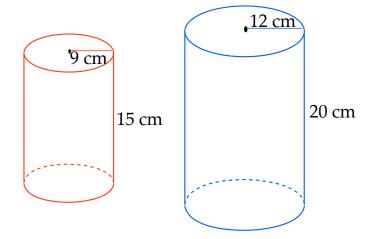
Ratio of side lengths:
$a : b$

Ratio of surface areas:
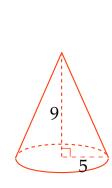$a^2 : b^2$
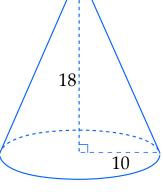
Ratio of volumes:
$a^3 : b^3$

9 cm

15 cm

12 cm

20 cm
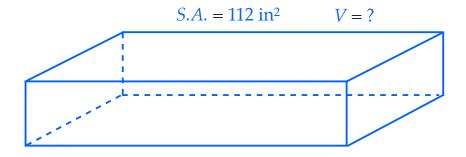
Ratio of side lengths:

$a : b$

Ratio of surface areas:

$a^2 : b^2$

Ratio of volumes:

$a^3 : b^3$

9

5

18

10

$V = 27$ in³

$S.A. = 63$ in²

$S.A. = 112$ in² $V = ?$

Similar Solids
Pg. 2

Similarity Ratio of Figures	Ratio of Surface Areas	Ratio of Volumes
$a:b$	$a^2:b^2$	$a^3:b^3$